



*JPW*

PATENT

ATTORNEY DOCKET NO. 041514-5102-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Takanori MAEDA

Application No.: 10/624,929

Filed: 7/23/03

Title: Variable Optical Element, A Pickup  
Apparatus Having The Variable Optical Element,  
And An Information Recording And Reproducing  
Apparatus Having The Pickup Apparatus

Commissioner for Patents  
U.S. Patent and Trademark Office  
Alexandria, VA 22314

Sir:

**CHANGE OF CORRESPONDENCE ADDRESS**

Please enter the correspondence address of this application as:

**Customer Number 55694**

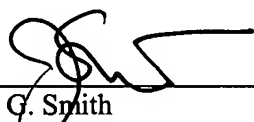
A new power of attorney appointing the undersigned is being filed concurrently herewith. If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

Dated: October 26, 2005

By:

  
\_\_\_\_\_  
John G. Smith  
Registration No. 33,818

**CUSTOMER NO. 55694**  
**DRINKER, BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, D.C. 20005-1209  
Tel: (202) 842-8800  
Fax: (202) 842-8465



PATENT  
ATTORNEY DOCKET NO. 041514-5102-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Takanori MAEDA )  
Application No.: 10/624,929 )  
Filed: 7/23/03 )  
Title: Variable Optical Element, A Pickup )  
Apparatus Having The Variable Optical Element, )  
And An Information Recording And Reproducing )  
Apparatus Having The Pickup Apparatus )

Commissioner for Patents  
Alexandria, VA 22314

Sir:

**SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY**  
**AND GRANT OF NEW POWER OF ATTORNEY**

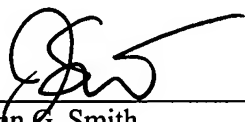
Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New Power of Attorney by the Assignee.

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

Dated: October 26, 2005

By:   
John G. Smith  
Registration No. 33,818

**CUSTOMER NO. 55694**  
**DRINKER, BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, D.C. 20005-1209  
Tel: (202) 842-8800  
Fax: (202) 842-8465



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignee: PIONEER CORPORATION

Commissioner for Patents  
Washington, D.C. 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), PIONEER CORPORATION, a Japanese corporation, certifies that it is an assignee of the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) to PIONEER CORPORATION submitted to the U.S. Patent and Trademark Office.

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
06/10/94	04478/041001	08/258,104	5,521,730	05/28/96	07/11/1994; 007077/0197
03/15/95	04478/046001	08/404,632	5,521,750	05/28/96	05/02/1995; 007550/0562
12/15/95	04478/052001	08/573,398	5,614,687	03/25/97	12/15/1995; 007807/0046
03/28/96	04478/058001	08/623,558	5,684,773	11/04/97	03/28/1996; 007946/0825
07/01/96	04478/061001	08/675,317	5,702,792	12/30/97	07/01/1996; 008074/0586
08/28/96	04478/063001	08/697,833	5,716,761	02/10/98	10/17/1996; 008211/0810
06/04/97	04478/071001	08/869,010	6,025,743	02/15/00	09/02/1997; 008695/0395
07/12/95	041514-5001	08/501,463	5,673,359	09/30/97	07/12/1995; 007608/0810
03/13/97	041514-5003-01	08/816,883	5,703,437	12/30/97	Not available
11/09/95	041514-5005	08/556,051	5,608,698	03/04/97	02/23/1996; 007826/0808
07/07/97	041514-5006-01	08/889,177	5,751,690	05/12/98	09/23/2003; 014515/0078
12/19/95	041514-5007	08/575,080	5,748,607	05/05/98	12/19/1995; 007819/0224
12/27/95	041514-5010	08/537,492	5,721,580	02/24/98	04/02/1996; 007872/0646
12/29/95	041514-5011	08/581,382	5,666,340	09/09/97	03/28/1996; 007868/0925
02/14/96	041514-5012	08/599,963	5,742,243	04/21/98	04/18/1996; 007898/0248

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
2/21/96	041514-5014	08/604,310	5,684,771	11/04/97	04/23/1996; 007960/0076
03/27/96	041514-5015	08/624,894	5,722,184	03/03/98	05/22/1996; 007970/0496
03/22/96	041514-5016	08/620,612	5,745,460	04/28/98	04/23/1996; 007907/0616
06/04/96	041514-5017-03	08/658,106	6,304,286	11/14/00	08/01/1996; 008061/0338
08/28/96	041514-5018	08/705,854	5,742,567	04/21/98	09/23/03; 014515/0078
08/30/96	041514-5019	08/697,838	5,805,548	09/08/98	10/18/1996; 008181/0674
10/02/96	041514-5020	08/725,037	6,020,865	02/01/00	11/26/1996; 008241/0366
10/02/96	041514-5021	08/725,038	6,064,357	05/16/00	11/14/1996; 008201/0527
11/22/96	041514-5022-01	08/754,479	5,982,104	11/09/99	02/07/1997; 008340/0480
11/25/96	041514-5023-01	08/754,931	5,982,414	11/09/99	02/07/1997; 008340/0553
12/10/96	041514-5026	08/763,317	5,820,961	10/13/98	12/10/1996; 008299/0709
04/23/97	041514-5028	08/839,184	6,148,037	12/14/00	09/30/1997; 008757/0806
05/14/97	041514-5029	08/856,483	5,815,536	09/29/98	05/14/1997; 008575/0581
08/01/97	041514-5030	08/905,080	6,167,008	12/26/00	08/01/1997; 009288/0481
09/19/97	041514-5031-01	08/951,212	6,219,324	04/17/01	03/25/1998; 009072/0585
09/02/97	041514-5033	08/921,468	5,886,506	03/23/99	04/20/1998; 009290/0561
09/05/97	041514-5034	08/923,950	5,963,184	10/05/99	02/03/1998; 008986/0034
10/28/97	041514-5035	08/959,616	6,118,644	09/12/00	10/28/1997; 008870/0781
02/11/98	041514-5036	09/021,938	6,084,841	07/04/00	02/11/1998; 008984/0660
01/22/98	041514-5037	09/010,537	5,946,277	08/31/99	06/15/1998; 009308/0209
05/14/98	041514-5038	09/078,133	6,144,155	11/07/00	08/04/1998; 009381/0098
05/14/98	041514-5039	09/078,138	6,147,443	11/14/00	08/04/1998; 009381/0104
05/22/98	041514-5040	09/083,443	6,014,060	01/11/00	05/22/1998; 009190/0569
07/16/98	041514-5041	09/116,442	6,195,072	02/27/01	10/06/1998; 009506/0483
07/07/98	041514-5042	09/110,383	6,211,865	04/03/01	09/28/1998; 009532/0905
06/30/98	041514-5043	09/107,996	6,297,788	10/02/01	09/16/1998; 009464/0865
07/21/98	041514-5044	09/119,658	6,262,699	07/17/01	10/16/1998; 009528/0151

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
08/07/98	041514-5045	09/131,340	6,184,612	02/06/01	10/30/1998; 009664/0641
04/04/01	041514-5046-01	09/131,339	6,316,873	11/13/01	11/16/1998; 009589/0769
08/07/98	041514-5047	09/131,224	6,400,070	06/04/02	10/27/1998; 009560/0229
08/07/98	041514-5048	09/131,225	6,278,230	08/21/01	10/29/1998; 011517/0379
08/07/98	041514-5049	09/131,222	6,066,922	05/23/00	11/16/1998; 010386/0576
06/26/98	041514-5050	09/105,269	6,151,280	11/21/00	10/23/1998; 009551/0860
06/26/98	041514-5051	09/104,930	6,101,157	08/08/00	10/21/1998; 009536/0192
10/06/98	041514-5052	09/166,529	6,134,211	10/17/00	12/17/1998; 009653/0875
12/23/98	041514-5053	09/219,779	6,259,198	07/10/01	03/03/1999; 009813/0238
1/8/99	041514-5054	09/227,532	6,522,608	02/18/03	01/08/99; 009700/0865
8/29/02	041514-5054-01	10/230,078	6,724,704	04/20/04	01/08/99; 009700/0865
8/29/02	041514-5054-02	10/230,354	6,757,228	06/29/04	01/08/99; 009700/0865
1/6/99	041514-5055	09/225,829	6,381,399	04/30/02	01/06/99; 009697/0653
3/16/99	041514-5056	09/270,657	6,674,695	01/06/04	06/01/99; 009995/0604
8/29/02	041514-5054-03	10/230,097	6,661,754	12/09/03	01/08/99; 009700/0865
03/18/99	041514-5057	09/270,827	6,292,503	09/18/01	06/04/1999; 009997/0537
7/20/01	041514-5057-01	09/908,560	6,573,116	06/03/03	06/04/99; 009997/0537
3/19/99	041514-5058	09/271,989	6,445,873	09/03/02	06/07/99; 010013/0616
7/31/02	041514-5058-01	10/207,845			06/07/99; 010013/0616
04/27/99	041514-5059	09/300,411	6,262,956	07/17/01	08/19/1999; 010176/0052
04/27/99	041514-5060	09/300,412	6,473,376	10/29/02	07/19/1999; 010105/0082
06/21/99	041514-5061-01	09/337,345	6,404,729	06/11/02	06/21/1999; 010057/0764
06/18/99	041514-5062	09/335,678	6,271,891	08/07/01	10/06/1999; 010289/0572
7/19/99	041514-5063	09/356,676	6,580,676	06/17/03	07/19/99; 010117/0609
07/08/99	041514-5064	09/349,918	6,122,248	09/19/00	07/08/1999; 010093/0083
07/28/99	041514-5065-01	09/362,198	6,404,124	06/11/02	07/28/1999; 010136/0399

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
10/20/99	041514-5066	09/421,250	6,483,988	11/19/02	01/04/00; 010475/0202
10/25/99	041514-5067	09/425,939	6,535,670	03/18/03	01/03/00; 010508/0906
10/25/99	041514-5068-01	09/425,940	6,605,227	08/12/03	01/19/00; 010493/0984
10/22/99	041514-5069	09/425,178	6,339,581	01/15/02	01/03/2000; 010507/0738
10/27/99	041514-5070	09/427,677	6,504,632	01/07/03	01/12/00; 010495/0134
3/2/00	041514-5071	09/517,721	6,552,703	04/22/03	05/15/00; 010790/0218
3/2/00	041514-5072	09/517,732	6,836,067	12/28/04	05/12/00; 010796/0386
03/17/00	041514-5073	09/531,126	6,312,547	11/06/01	08/01/2000; 010965/0653
4/10/00	041514-5074	09/546,282	6,552,984	04/22/03	08/07/00; 011010/0640
4/12/00	041514-5075	09/548,264	6,680,886	01/20/04	08/14/00; 011078/0883
4/12/00	041514-5076	09/548,263	6,690,632	02/10/04	08/17/00; 011008/0704
05/05/00	041514-5078	09/565,025	6,335,218	01/01/02	09/21/2000; 011098/0820
5/23/00	041514-5079	09/576,901	6,587,409	07/01/03	09/14/00; 011082/0062
05/25/00	041514-5080	09/577,626	6,295,256	09/25/01	10/27/2000; 011261/0829
6/1/00	041514-5081	09/584,783			09/22/00; 011104/0969
5/31/00	041514-5082	09/583,757	6,518,943	02/11/03	09/15/00; 011067/0989
6/20/00	041514-5083	09/597,094	6,496,165	12/17/02	10/27/00; 011258/0632
6/21/00	041514-5084	09/598,291	6,535,477	03/18/03	10/10/00; 011154/0089
1/21/03	041514-5084-01	10/347,225	6,785,220	08/31/04	10/10/00; 011154/0089
8/2/04	041514-5084-02	10/902,797			10/10/00; 011154/0089
06/27/00	041514-5085	09/604,170	6,456,006	09/24/02	12/04/2000; 011330/0385
7/7/00	041514-5086	09/610,690	6,545,972	04/08/03	10/27/00; 011258/0584
7/13/00	041514-5087	09/615,592	6,756,951	06/29/04	10/17/00; 011243/0336
9/7/00	041514-5088	09/657,163	6,594,631	07/15/03	12/22/00; 011386/0221
9/14/00	041514-5089	09/662,347	6,479,940	11/12/02	12/11/00; 011353/0010
09/19/00	041514-5090	09/665,075	6,449,095	09/10/02	12/11/2000; 011350/0599
10/11/00	041514-5091	09/685,600	6,741,543	05/25/04	02/02/01; 011488/0293

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
10/11/00	041514-5092	09/685,893	6,710,755	03/23/04	01/29/01; 011477/0177
10/05/00	041514-5093	09/679,814	6,380,689	04/30/02	12/22/2000; 011386/0414
10/27/00	041514-5094	09/697,737	6,667,727	12/23/03	02/05/01; 011492/0220
10/20/00	041514-5095	09/692,415			02/05/01; 011492/0271
10/25/00	041514-5096	09/695,424	6,381,202	04/30/02	02/15/2001; 011526/0602
11/9/00	041514-5097	09/708,855	6,731,276	05/04/04	03/26/01; 011639/0932
11/13/00	041514-5098	09/709,625			05/01/01; 011764/0608
12/18/00	041514-5100	09/738,950	6,714,495	03/30/04	03/30/01; 011654/0762
12/18/00	041514-5101	09/738,949	6,804,185	10/12/04	04/19/01; 011711/0915
12/20/00	041514-5102	09/739,646	6,628,599	09/30/03	03/14/01; 011588/0461
7/23/03	041514-5102-01	10/624,929			03/14/01; 011588/0461
3/27/01	041514-5103	09/817,246			04/10/01; 011680/0027
1/5/01	041514-5104	09/754,253	6,744,063	06/01/04	11/25/02; 013529/0814
1/22/01	041514-5105	09/765,306	6,885,616	04/26/05	04/23/01; 011702/0779
1/29/01	041514-5106	09/770,673			07/23/01; 012006/0292
2/8/01	041514-5107	09/778,846	6,504,813	01/07/03	04/30/01; 011764/0662
2/8/01	041514-5108	09/778,847	6,625,105	09/23/03	05/07/01; 011778/0423
2/14/01	041514-5109	09/782,525	6,429,981	08/06/02	05/16/01; 011809/0399
2/27/01	041514-5110	09/793,729	6,646,962	11/11/03	05/07/01; 011778/0420
3/9/01	041514-5111	09/801,877	6,501,708	12/31/02	08/03/01; 012064/0694
3/9/01	041514-5112	09/801,873	6,628,587	09/30/03	08/03/01; 012058/0696
3/16/01	041514-5113	09/809,352	6,485,418	11/26/02	06/25/01; 011931/0985
03/22/01	041514-5114	09/813,898			07/03/2001; 011957/0951
3/23/01	041514-5115	09/815,338			07/09/01; 011961/0931
3/28/01	041514-5116	09/817,895			07/06/01; 011957/0545
4/8/05	041514-5116-01	11/101,558			07/06/01; 011957/0545
4/8/05	041514-5116-02	11/101,560			07/06/01; 011957/0545

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
4/8/05	041514-5116-03	11/101,596			07/06/01; 011957/0545
4/8/05	041514-5116-04	11/101,407			07/06/01; 011957/0545
4/8/05	041514-5116-05	11/101,595			07/06/01; 011957/0545
4/16/01	041514-5117	09/835,097			09/10/01; 012143/0154
4/18/01	041514-5118	09/836,456	6,560,173	05/06/03	08/06/01; 012057/0904
4/18/01	041514-5119	09/836,533	6,788,633	09/07/04	07/10/01; 011969/0624
5/16/01	041514-5120	09/855,753	6,873,586	03/29/05	09/10/01; 012157/0106
6/4/01	041514-5121	09/871,702	6,807,276	10/19/04	10/02/01; 012227/0656
6/21/01	041514-5122	09/885,286			10/04/01; 012224/0831
6/19/01	041514-5124	09/883,494	6,876,871	04/05/05	10/04/01; 012231/0113
6/21/01	041514-5126	09/885,526	6,690,500	02/10/04	10/09/01; 012249/0880
6/28/01	041514-5127	09/892,787			10/10/01; 012245/0625
6/28/01	041514-5128	09/892,791			10/10/01; 012245/0691
6/27/01	041514-5129	09/893,731	6,679,430	01/20/04	10/22/01; 012271/0692
11/3/03	041514-5129-01	10/698,422			10/22/01; 012271/0692
6/27/01	041514-5130	09/891,471			10/10/01; 012245/0681
7/3/01	041514-5131	09/897,413	6,542,454	04/01/03	10/19/01; 012271/0251
7/5/01	041514-5132	09/898,488	6,618,350	09/09/03	10/12/01; 012245/0919
6/2/03	041514-5132-01	10/449,026	6,837,072	01/04/05	10/12/01; 012245/0919
4/5/01	041514-5133	09/898,489			10/19/01; 012267/0113
8/3/01	041514-5134	09/921,308	6,865,144	03/08/05	11/05/01; 012298/0616
8/8/01	041514-5135	09/923,804	6,687,214	02/03/04	11/06/01; 012298/0782
08/10/01	041514-5136	09/925,960			11/06/2001; 012298/0631
8/24/01	041514-5138	09/935,640	6,650,026	11/18/03	11/06/01; 012298/0587
8/21/01	041514-5139	09/933,118	6,643,238	11/4/03	11/05/01; 012298/0657
8/29/01	041514-5140	09/940,675	6,529,339	03/04/03	11/30/01; 012334/0439
8/29/01	041514-5141	09/940,676	6,791,917	09/14/04	12/05/01; 012342/0868



Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
08/29/01	041514-5142	09/940,693	6,510,130	01/21/03	11/05/2001; 012298/0597
9/4/01	041514-5143	09/944,098			12/04/01; 012344/0154
9/10/01	041514-5144	09/948,785	6,656,560	12/2/03	12/07/01; 012357/0123
10/1/03	041514-5144-01	10/674,461			12/07/01; 012357/0123
10/9/01	041514-5145	09/972,040	6,650,970	11/18/03	12/19/01; 012387/0185
10/5/01	041514-5147	09/971,110			12/27/01; 012403/0192
10/10/01	041514-5148	09/973,071	6,590,990	07/08/03	01/11/02; 012472/0143
10/10/01	041514-5149	09/973,073			01/04/02; 012429/0513
10/22/01	041514-5151	09/982,982			01/14/02; 012470/0513
10/29/01	041514-5152	09/984,251	6,882,615	04/19/05	01/28/02; 012522/0440
2/15/05	041514-5152-01	11/057,597			01/28/02; 012522/0440
11/6/01	041514-5153	09/985,953	6,590,857	07/08/03	02/04/02; 012554/0339
2/8/00	041514-5154	09/497,694	6,329,667	12/11/01	05/09/00; 010775/0009
11/16/01	041514-5154-01	09/987,948	6,537,839	03/25/03	02/27/02; 012618/0826
11/20/01	041514-5155	09/988,813	6,667,947		02/04/02; 012554/0287
10/13/94	041514-5156	08/322,353	5,754,874	05/19/98	09/23/2003; 014515/0110
12/12/96	041514-5157	08/766,591	5,766,354	06/16/98	12/12/1996; 008356/0669
12/14/92	041514-5158	07/990,168	5,331,582	07/19/94	02/03/1993; 006440/0201
12/3/01	041514-5159	09/999,194			03/08/02; 012679/0584
12/3/01	041514-5160	09/999,195	6,594,091	7/15/03	02/08/02; 012576/0281
12/4/01	041514-5161	10/000,809			02/26/02; 012657/0359
12/10/01	041514-5162	10/006,987			02/28/02; 012637/0232
12/12/01	041514-5163	10/012,366			09/23/03; 014516/0190
12/13/01	041514-5164	10/013,955			03/11/02; 012689/0866
12/21/01	041514-5165	10/024,602	6,775,085	08/10/04	04/15/2002; 012800/0932
07/22/04	041514-5165-01	10/895,949			09/23/03; 014516/0190
12/20/01	041514-5166	10/022,843			03/19/02; 012710/0157

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
6/29/00	041514-5167	09/606,170	6,348,754	02/19/02	09/05/00; 011047/0418
1/14/02	041514-5167-01	10/043,177	6,510,597	01/28/03	09/05/00; 011047/0418
12/10/99	041514-5168	09/458,028	6,353,582	03/05/02	03/06/2000; 010594/0683
09/13/99	041514-5169	09/394,503	6,392,966	05/21/02	11/05/1999; 010364/0992
8/16/02	041514-5170-01	09/414,034	6,504,808	01/07/03	04/03/00; 010940/0886
12/16/02	041514-5170-02	10/319,537	6,671,245	12/30/03	04/03/00; 010940/0886
3/1/00	041514-5171	09/516,731	6,748,001	06/08/04	05/19/00; 010803/0859
8/6/01	041514-5172	09/921,597	6,687,604	02/03/04	11/01/01; 012294/0042
3/4/99	041514-5173	09/262,352	6,658,054	12/02/03	05/11/99; 009952/0756
1/10/03	041514-5174-01	09/379,636	6,807,571	10/19/04	10/26/99; 010369/0506
7/23/97	041514-5176	08/899,334	5,859,818	01/12/99	07/23/97; 008653/0605
12/2/93	041514-5177-01	08/160,289	5,457,475	10/10/95	Not Available
03/23/00	041514-5178	09/533,763	6,301,028	10/09/01	07/20/2000; 010976/0343
4/25/00	041514-5179	09/557,616	6,552,751	4/22/03	08/29/00; 011038/0292
6/30/00	041514-5182	09/607,336			10/20/00; 011174/0715
11/28/00	041514-5183	09/723,281	6,842,194	01/11/05	05/02/01; 011760/0425
06/30/00	041514-5182-01	11/188,775			
12/2/93	041514-5184	08/160,254	5,459,593	10/17/95	01/26/94; 6839/0956
1/2/00	041514-5185	09/704,063	6,480,456	11/12/02	02/12/01; 011512/0379
7/24/00	041514-5186	09/624,194	6,707,438	03/16/04	10/20/00; 011174/0707
12/5/03	041514-5186-01	10/727,630			10/20/00; 011174/0707
12/01/99	041514-5187	09/452,123	6,252,495	06/26/01	12/01/1999; 010431/0635
03/04/99	041514-5188	09/262,353	6,278,675	08/21/01	05/11/1999; 009941/0089
9/7/03	041514-5189	09/656,953			11/14/00; 011309/0921
01/24/01	041514-5191	09/768,004	6,493,158	12/10/02	05/14/2001; 011785/0247
3/30/96	041514-5192	08/040,276	5,512,919	04/30/96	03/30/93; 6517/555/556
3/24/03	041514-5193-	09/492,296	6,618,346	09/09/03	04/25/00; 010726/0933

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
	01				
08/16/93	041514-5195	08/106,698	5,455,817	10/03/95	08/16/1993; 006669/0688
06/13/00	041514-5198	09/593,791			
10/25/00	041514-5200	09/695,050			01/22/01; 011718/0656
9/17/01	041514-5202	09/953,453	6,594,221	07/15/03	02/13/02; 012595/0623
9/28/00	041514-5204	09/671,601	6,813,508	11/2/04	01/04/01; 011399/0773
3/8/01	041514-5205	09/801,055	6,906,686	06/14/05	05/23/01; 011827/0989
3/29/01	041514-5206	09/820,284	6,597,442	07/22/03	06/29/01; 011945/0718
3/8/01	041514-5208	09/801,053	6,771,231	08/03/04	05/23/01; 011827/0977
6/21/00	041514-5209	09/598,222	6,670,079	12/30/03	09/13/00; 011174/0835
10/4/01	041514-5210	09/969,735	6,806,852	10/19/04	01/08/02; 012457/0624
1/14/02	041514-5211	10/043,260			04/15/02; 012801/0057
1/14/02	041514-5212	10/043,287			04/10/02; 012780/0466
1/11/02	041514-5214	10/042,396	6,870,800	03/22/05	03/29/02; 012742/0381
1/14/02	041514-5215	10/043,259	6,891,783	05/10/05	04/03/02; 012770/0359
01/13/92	041514-5218	07/819,987	5,578,948	11/26/96	01/13/1992; 005987/0309
09/07/94	041514-5219-01	08/302,376	5,532,992	07/02/96	Not Available
3/26/93	041514-5221	08/037,101	5,374,489	12/20/94	05/21/93; 006544/0485
02/06/91	041514-5223	07/651,605	5,161,033	11/03/92	02/06/1991; 005599/0725
03/15/93	041514-5225	08/032,209	5,262,774	11/16/93	Not Available
06/24/92	041514-5228	07/903,165	5,250,928	10/05/93	09/23/03; 014515/0110
9/18/01	041514-5229	09/954,221			02/13/02; 012608/0104
8/27/01	041514-5230	09/938,828			01/28/02; 012522/0491
8/23/01	041514-5231	09/935,054	6,828,936	12/07/04	03/21/02; 012710/0141
3/23/00	041514-5232	09/651,739	6,414,762	07/02/02	12/06/00; 011921/0152
02/10/95	041514-5233	08/386,494	5,546,220	08/13/96	03/22/1995; 007404/0447
07/25/97	041514-5235	08/900,171	5,982,804	11/09/99	07/25/1997; 008687/0423
09/21/99	041514-5235-	09/399,768	6,291,256	09/18/01	07/25/1997; 008687/0423

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
	01				
04/23/97	041514-5236	08/838,994	5,953,585	09/14/99	04/23/1997; 008538/0768
03/07/97	041514-5237	08/813,211	5,894,189	04/13/99	07/08/1997; 008617/0647
03/26/97	041514-5238	08/824,439	6,049,654	04/11/00	03/26/1997; 008475/0711
04/23/97	041514-5239	08/838,926	6,009,070	12/28/99	04/23/1997; 008528/0780
11/16/99	041514-5241	09/441,202	6,567,059	05/20/03	02/22/2000; 010562/0857
1/23/02	041514-5242	10/052,568	6,801,489	10/05/04	04/10/2002; 012798/0349
2/8/02	041514-5243	10/067,981			04/15/2002; 012800/0912
7/25/94	041514-5245-01	08/279,815	5,399,936	03/21/95	Not Available
07/15/96	041514-5250	08/680,041	5,736,815	04/07/98	07/15/1996; 008142/0337
02/13/96	041514-5251	08/600,659	5,650,988	07/22/97	05/13/1996; 008130/0331
01/23/96	041514-5253	08/590,304	5,799,046	08/25/98	03/15/1996; 007842/0913
2/28/02	041514-5254	10/084,668	6,836,458	12/28/04	05/22/2002; 012921/0676
3/6/02	041514-5255	10/091,345	6,720,056	04/13/04	06/05/2002; 012979/0325
3/18/02	041514-5256	10/098,619			06/24/2002; 013030/0963
3/25/02	041514-5257	10/104,064			06/21/2002; 013027/0039
4/2/02	041514-5260	10/112,766			04/02/2002; 012781/0257
5/13/02	041514-5261	10/142,958			05/13/2002; 012895/0102
5/17/02	041514-5262	10/147,050			08/05/2002; 013137/0439
5/22/02	041514-5263	10/152,073			05/22/2002; 012923/0068
05/28/02	041514-5264	10/154,926	6,922,180	07/26/05	05/28/2002; 012940/0316
6/11/02	041514-5266	10/165,953			06/11/2002; 012987/0801
12/18/92	041514-5267	07/992,648	5,822,775	10/13/98	02/18/1993; 006455/0861
06/02/93	041514-5268	08/071,014	5,355,175	10/11/94	07/06/1993; 006623/0318
10/24/96	041514-5269	08/736,609	5,825,248	10/20/98	01/08/1997; 008318/0841
12/17/96	041514-5270	08/766,362	5,827,593	10/27/98	12/17/1996; 008804/0778
05/24/96	041514-5271	08/653,160	5,828,181	10/27/98	07/03/1996; 008020/0274

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
7/15/02	041514-5272	10/193,991			07/16/2002; 013103/0012
7/16/02	041514-5273	10/195,438			07/16/2002; 013114/0055
7/22/02	041514-5274	10/199,706			07/22/2002; 013131/0525
07/25/02	041514-5275	10/201,923			
9/24/02	041514-5276	10/252,373			09/24/2002; 013322/0428
9/24/02	041514-5277	10/252,403	6,680,683	01/20/04	09/24/2002; 013327/0855
9/13/02	041514-5279	10/242,766	6,798,145	09/28/04	09/13/2002; 013294/0664
9/20/02	041514-5280	10/247,680			09/20/2002; 013317/0878
9/23/02	041514-5281	10/252,008			12/10/2002; 013571/0652
10/16/02	041514-5282	10/257,719			10/16/2002; 013407/0677
11/18/02	041514-5283	10/295,860			11/18/2002; 013515/0160
12/9/02	041514-5284	10/314,256	6,870,521	03/22/05	09/23/2003; 014516/0190
11/27/02	041514-5285	10/304,854			11/27/2002; 013538/0891
12/9/02	041514-5286	10/314,258			12/09/2002; 013561/0418
12/17/02	041514-5287	10/320,414	6,844,043	01/18/05	12/17/2002; 013594/0067
12/16/02	041514-5288	10/319,698			02/11/2004; 014994/0169
12/19/02	041514-5289	10/322,755			04/01/2003; 013909/0922
12/14/94	041514-5290	08/356,052	5,452,273	09/19/95	Not Available
1/29/03	041514-5291	10/352,996			01/29/2003; 013722/0565
10/15/92	041514-5292	07/961,506	5,429,884	07/04/95	10/15/1992; 006295/0360
3/12/03	041514-5293	10/385,690			03/21/2003; 013870/0744
4/8/03	041514-5294	10/408,652			07/14/2003; 014269/0943
4/25/03	041514-5295	10/422,761			04/25/2003; 014006/0954
5/13/03	041514-5296	10/436,368	6,841,218	01/11/05	07/14/2003; 014286/0506
5/19/03	041514-5297	10/440,376			05/19/2003; 014092/0554
5/21/03	041514-5298	10/442,110			05/21/2003; 014104/0578
6/6/03	041514-5299	10/455,477			06/06/2003; 014161/0313
6/6/03	041514-5300	10/455,726			06/06/2003; 014161/0904

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
6/14/95	041514-5301	08/490,357	5,666,460	09/09/97	09/23/2003; 014515/0078
10/14/93	041514-5302	08/135,997	5,475,440	12/12/95	09/23/2003; 014515/0110
7/10/03	041514-5303	10/616,501			10/31/2003; 014650/0343
7/17/03	041514-5304	10/620,436			07/17/2003; 014310/0793
8/8/03	041514-5305	10/636,709			08/08/2003; 014378/0924
9/3/03	041514-5306	10/653,428			01/16/2004; 014906/0305
09/05/03	041514-5307	10/655,584			01/21/2004; 014925/0127
9/9/03	041514-5308	10/657,697			02/02/2004; 014954/0891
9/29/03	041514-5309	10/672,076	6,873,117	03/29/05	02/13/2004; 014985/0412
10/7/03	041514-5310	10/679,503	6,856,083	02/15/05	03/04/2004; 015049/0649
10/17/03	041514-5311	10/686,780			03/01/2004; 015038/0438
10/17/03	041514-5312	10/686,742			10/17/2003; 014618/0527
11/5/03	041514-5313	10/701,080			03/02/2004; 015032/0056
12/3/03	041514-5314	10/725,502			12/03/2003; 014767/0793
12/2/03	041514-5315	10/724,902			12/02/2003; 014767/0561
12/2/03	041514-5316	10/724,896			12/02/2003; 014767/0558
12/12/03	041514-5317	10/733,290			12/12/2003; 014813/0168
12/12/03	041514-5318	10/733,304			12/12/2003; 014817/0223
1/20/04	041514-5319	10/759,161			01/20/2004; 014904/0639
2/13/04	041514-5320	10/777,213			07/02/2004; 015528/0113
3/16/04	041514-5321	10/489,671			03/16/2004; 015671/0218
3/2/04	041514-5322	10/790,195			03/02/2004; 015052/0711
3/2/04	041514-5323	10/789,993			03/02/2004; 015034/0322
3/15/04	041514-5324	10/489,704			03/15/2004; 015738/0054
3/11/04	041514-5325	10/797,573			07/21/2004; 015591/0263
3/15/04	041514-5326	10/489,703			03/15/2004; 015671/0195
03/12/04	041514-5327	10/798,974			07/26/2004; 015609/0579
5/24/04	041514-5328	10/496,465			05/24/2004; 015710/0791

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
3/23/04	041514-5329	10/806,449			03/23/2004; 015125/0758
04/29/04	41514-5330	10/834,234			
6/10/04	041514-5331	10/864,770			10/01/2004; 015854/0685
6/16/04	041514-5333	10/868,034			06/16/2004; 015476/0902
6/16/04	041514-5334	10/868,185			10/08/2004; 015879/0991
6/29/04	041514-5335	10/878,675			10/13/2004; 015890/0807
6/29/04	041514-5336	10/878,517			06/29/2004; 015526/0717
7/9/04	041514-5337	10/886,714			07/09/2004; 015569/0798
7/19/04	041514-5338	10/893,232			07/19/2004; 015586/0407
08/06/04	041514-5339	10/503,668			08/06/2004; 016382/0530
7/19/04	041514-5340	10/893,219			07/19/2004; 015586/0393
9/21/04	041514-5341	10/945,092			09/21/2004; 015821/0022
03/31/05	041514-5342	10/509,428			
05/13/05	041514-5343	10/508,857			
03/17/05	041514-5344	10/509,079			
10/13/04	041514-5345	10/962,514			10/13/2004; 015892/0479
9/30/04	041514-5346	10/953,287			09/30/2004; 015856/0339
08/28/97	041514-5347	08/919,355	6,225,987	05/01/01	01/15/1998; 009050/0712
9/28/04	041514-5348	10/950,559			09/28/2004; 015847/0691
9/28/04	041514-5349	10/950,556			09/28/2004; 015856/0314
09/28/04	041514-5350	10/950,684			01/12/2005; 016152/0642
10/13/04	041514-5351	10/962,531			10/13/2004; 015892/0308
10/06/04	041514-5352	10/958,639			01/14/2005; 016156/0251
10/08/04	041514-5353	10/960,283			01/24/2005; 016207/0214
12/21/01	041514-5354	10/028,237	6,882,327	04/19/05	12/21/2001; 012417/0686
2/13/02	041514-5355	10/365,971	6,847,339	01/25/05	12/17/2004; 015478/0218
04/25/02	041514-5356	10/131,048			04/25/2002; 012834/0676
01/05/01	041514-5357	09/755,696			Assignment filed 07/29/05

Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
07/29/04	041514-5358	10/901,752			07/29/2004; 015645/0957
07/27/04	041514-5359	10/899,649			Assignment filed 07/29/05
05/22/01	041514-5360	09/862,918	6,888,517	05/03/05	05/22/2001; 011845/0814
04/22/02	041514-5361	10/126,583			04/22/2002; 012821/0273
06/08/01	041514-5362	09/877,293	6,765,621	07/20/04	06/08/2001; 011896/0888
05/31/01	041514-5363	09/871,436	6,806,911	10/19/04	05/31/2001; 011878/0991
12/17/01	041514-5364	10/022,629			12/17/2001; 012404/0588
09/24/03	041514-5365	10/669,549	6,833,824	12/21/04	12/15/2004; 015460/0617
09/24/03	041514-5365	10/669,549	6,833,824	12/21/04	Assignment filed 07/29/05
02/23/01	041514-5366	09/791,530	6,819,046	11/16/04	Assignment filed 07/29/05
12/20/00	041514-5367	09/739,789	6,922,191	07/26/05	03/26/2001; 011637/0257
11/23/01	041514-5368	09/992,052			Assignment filed 07/29/05
05/29/01	041514-5369	09/867,098			Assignment filed 07/29/05
07/07/00	041514-5371	09/612,120			Assignment filed 07/29/05
07/12/02	041514-5372	10/194,542			09/04/2002; 013260/0557
7/24/03	041514-5373	10/625,877			07/24/2003; 014330/0470
11/16/04	041514-5374	10/988,535			11/16/2004; 016009/0459
11/08/01	041514-5375	10/008,856			Assignment filed 07/29/05
11/23/04	041514-5377	10/995,089			02/14/2005; 016262/0957
05/09/00	041514-5378	09/567,344			
11/27/01	041514-5379	09/995,383	6,803,722	10/12/04	Assignment filed 07/29/05
12/02/04	041514-5380	11/001,648			03/30/2005; 016407/0502
12/01/04	041514-5381	11/000,523			03/09/2005; 016348/0698
12/6/04	041514-5382	11/003,329			03/11/2005; 016354/0442
02/27/01	041514-5383	09/794,182			Assignment filed 07/29/05
01/10/00	041514-5384	09/479,875	6,784,857	08/31/04	Assignment filed 07/29/05
06/25/02	041514-5385	10/178,248	6,784,615	08/31/04	Assignment filed 07/29/05
08/31/04	041514-5385-01	10/929,541			Assignment filed 07/29/05



Filing Date	Attorney Docket No.	Application No.	Patent No.	Issue Date	Recordation Info. Date; Reel/Frame
07/09/02	041514-5386	10/190,510	6,852,646	02/08/05	Assignment filed 07/29/05
01/14/05	041514-5388	11/034,851			01/14/2005; 016192/0351
04/16/04	041514-5387-01	10/826,188			Assignment filed 07/29/05
01/14/05	041514-5388	11/034,851			01/14/2005; 016192/00351
12/18/03	041514-5389	10/738,090			Assignment filed 07/29/05
12/10/03	041514-5390	10/730,932	6,930,285	08/16/05	Assignment filed 07/29/05
03/29/04	041514-5391	10/810,618			Assignment filed 07/29/05
09/29/04	041514-5392	10/951,765			Assignment filed 07/29/05
11/17/03	041514-5393	10/713,005			Assignment filed 07/29/05
07/11/03	041514-5395	10/617,233			Assignment filed 07/29/05
01/14/05	041514-5396	10/521,442			
01/12/05	041514-5397	11/033,958			
2/1/05	041514-5398	11/046,799			
02/28/05	041514-5399	11/067,603			Assignment filed 07/29/05
03/07/05	041514-5400	11/072,648			
3/7/05	041514-5401	11/072,647			02/01/2005; 016243/0936
03/23/05	041514-5402	11/086,670			
03/15/05	041514-5403	11/079,537			Assignment filed 07/29/05
03/24/05	041514-5404	11/089,130			
03/24/05	041514-5405	11/101,628			Assignment filed 07/29/05
04/18/05	041514-5407	11/108,056			
4/27/05	041514-5408	10/532,967			
05/06/05	041514-5409	11/123,212			
06/02/05	041514-5411	11/142,670			
07/25/05	041514-5412	11/188,102			
03/18/05		11/083,072			
03/23/05		11/086,999			
03/24/05		11/087,720			

The undersigned, whose title is supplied below, is empowered to act on behalf of assignee Pioneer Corporation.

Acting on behalf of assignee Pioneer Corporation, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

Customer Number 55694  
DRINKER BIDDLE & REATH LLP  
1500 K Street, N.W.  
Suite 1100  
Washington, DC 20005

with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.

All correspondence regarding these applications should be sent to JOHN G.

SMITH at:

Customer Number 55694  
DRINKER BIDDLE & REATH LLP  
1500 K Street, N.W.  
Suite 1100  
Washington, DC 20005

Respectfully submitted,

Date: September 22, 2005

Kenichiro Yasukawa  
Kenichiro Yasukawa  
General Manager  
Intellectual Property Division  
Patent Application Group  
Research & Development Group  
PIONEER CORPORATION  
1-4-1 Meguro, Meguro-ku  
Tokyo 153-8654, Japan